HEMANK KUMAR

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EDUCATION

Bachelors of Technology, 2028 Batch,   **CGPA: 9.61**
Manipal University Jaipur, Jaipur, Rajasthan, India.

Senior Secondary (Class XII), 2024 Batch,   **Grade: 91.25%**
City Montessori School, Lucknow, Uttar Pradesh, India.

Secondary (Class X), 2022 Batch,   **Grade: 82%**
St Francis College, Lucknow, Uttar Pradesh, India.

SKILLS

Languages	Python, C, C++, Java, HTML5, CSS3, JavaScript, TypeScript, EJS
Frameworks	Flask, FastAPI, TensorFlow, LangChain, ReactJS, Express, NodeJS
Libraries:	NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Hugging Face
AI/ML Skills:	ANN, CNN, YOLO, RNN, LLMs, RAG, Llama, Generative AI.
Tools:	Git, VS Code, Streamlit, AWS, Render, Jupyter, Collab, Mongo, Supabase

LEADERSHIP AND ACHIEVEMENTS

Head of Technical Projects   **May 2025 – Present**
IEEE Computer Society, Manipal University Jaipur
- Lead the planning and execution of technical projects and events within the IEEE Computer Society chapter
- Organized and hosted **2 flagship events**, attracting a combined audience of **over 1,000 attendees,** driving technical engagement across the campus.

3rd Place – Hackerzstreet Hackathon
- Directed machine learning development and deployed a **Streamlit web app** to predict **crop water needs** and recommend **sustainable crops** based on weather and user input
- Helped team secure **top-3 position out of 500+ teams**, showcasing practical AI application for water conservation

PROJECTS

Medical Report De-Jargonizer & Visualizer Full-Stack AI Healthcare Platform   [Github](#)
- Engineering a web platform that uses **OCR (Tesseract)** to extract lab report data and **convert** medical jargon into layman-friendly explanations using **LLaMA 3.2 LLMs**
- Visualized health trends for 10+ key biomarkers (e.g., Hemoglobin, WBC) via **Plotly** and implemented **health forecasting** using **LSTM models**
- Built with **React + Tailwind**, **FastAPI**, and **Supabase**, enhanced patient health literacy and report comprehension by an estimated **2×** compared to raw lab reports.

Transformer From Scratch   [Github](#)
- Implemented a decoder-only **Transformer (~661K parameters)** from scratch using Python and TensorFlow, without high-level abstractions
- Created a custom tokenizer, multi-head self-attention, and full inference pipeline.
- Trained on **4,000+ SQuAD QA pairs** using a custom tokenizer, attention mechanism, and complete inference pipeline

Full Stack Resume Grader   Github

- Launched and developed a full-stack web app that automates **resume parsing, confidence scoring**, and **interview question generation** using **LangChain + LLMs**, improving screening speed by an estimated **60%**
- Integrated features for **automated job posting, resume filtering, and smart candidate evaluation**, reducing manual HR workload by **50%+** in pilot use cases
- Built with React, FastAPI, and Supabase, supporting scalable candidate processing.

CERTIFICATIONS

- Machine Learning by Andrew Ng – Coursera
- Machine Learning Bootcamp – Codebasics
- Deep Learning Specialization – DeepLearning.AI